

Response to Final Office Action Mailed October 4, 2006

U.S. Ser. No. 10/774,187

Filed Feb. 5, 2004

Wright et al.

Group Art Unit 1773

Examiner Vivian Chen

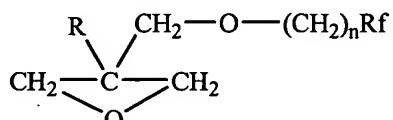
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Listing of Claims:

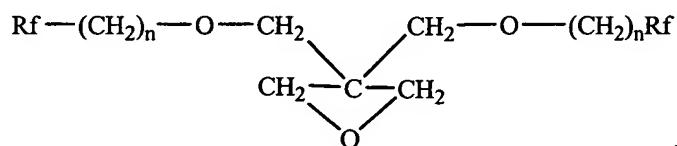
No claims are amended, canceled, or added. The pending claims are as follows:

1. (currently amended) A laminate comprising a layer derived from reactive ingredients comprising:

(a) a polymer comprising at least one polyester segment and at least one polyether segment comprising repeating units selected from



or



wherein n is an integer from 1 to 5, Rf is independently on each monomer a linear or branched alkyl group of from about 1 to about 20 carbon atoms being at least 25% perfluorinated with the H atoms of said Rf being replaced by F, and R is H or an alkyl of 1 to 6 carbon atoms, wherein the polyether segment comprises a pendent fluorinated group comprising:

- (i) a fluorocarbon moiety, and
 - (ii) an ether moiety, and wherein the fluorocarbon moiety is linked to the polyether segment via the ether moiety; and

(b) a melamine resin.

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2. (original) The laminate of claim 1 wherein the polymer and the melamine resin are co-reactable.

3. (original) The laminate of claim 2 wherein the polymer and the melamine resin are crosslinkable.

4. (original) The laminate of claim 1 wherein the melamine resin is derived from reaction with formaldehyde.

5. (original) The laminate of claim 1 wherein the melamine resin is at least partially alkylated.

6. (original) The laminate of claim 5 wherein the melamine resin is at least partially alkylated by reaction with one or more C1-C4 alcohols.

7. (original) The laminate of claim 6 wherein the melamine resin is at least partially alkylated by reaction with one or more alcohols selected from the group consisting of n-butanol, n-propanol, isopropanol, ethanol, and methanol.

8. (currently amended) A laminate comprising a layer derived from reactive ingredients comprising:

(a) a polymer comprising at least one polyester segment and at least one polyether segment comprising monomeric units derived from oxetane and a pendent fluorinated group comprising:

(i) a fluorocarbon moiety, and

(ii) an ether moiety, wherein the fluorocarbon moiety is linked to the polyether segment via the ether moiety; and

(b) a melamine resin. The laminate of claim 1 wherein the polyether segment comprises monomeric units derived from oxetane.

9. (original) The laminate of claim 8 wherein the monomeric units derived from oxetane comprise the pendent fluorinated group having a formula: $-\text{CH}_2\text{-O-(CH}_2)_n\text{-Rf}$, wherein said Rf group is a linear or branched alkyl group of 1 to 20 carbon atoms with a minimum of 25 percent of the hydrogens of said alkyl groups being replaced by F, or said Rf group being an oxaperfluorinated or perfluorinated polyether having from 4 to 60 carbon atoms, and n being from 1 to 3.

10. (original) The laminate of claim 9, wherein said Rf group is a linear or branched perfluorinated alkyl group of 1 to 20 carbon atoms.

11. (original) The laminate of claim 8, wherein polyether segment comprises monomeric units derived from tetrahydrofuran.

12. (original) The laminate of claim 1 comprising a substrate wherein the layer is disposed on the substrate.

13. (original) The laminate of claim 1 wherein the substrate is thermoformable.

14. (currently amended) A method for forming a laminate comprising steps of:
providing a composition comprising reactive ingredients of:

(a) a polymer comprising at least one polyester segment and
at least one polyether segment, wherein the polyether segment comprises monomeric
units derived from oxetane and a pendent fluorinated group comprising:

(i) a fluorocarbon moiety, and
(ii) an ether moiety, wherein the fluorocarbon moiety is linked to the polyether segment via the ether moiety; and
(b) a melamine resin; and

incorporating the composition into a laminate.

15. (original) The method of claim 14 where in the step of incorporating, (a) and (b) are reacted to form a crosslinked composition

16. (currently amended) A reaction product derived from reactive ingredients comprising:

(a) a polymer comprising at least one polyester segment and
at least one polyether segment comprising monomeric units derived from oxetane,
wherein the polyether segment comprises a pendent fluorinated group comprising:
(i) a fluorocarbon moiety, and
(ii) an ether moiety, wherein the fluorocarbon moiety is linked to the polyether segment via the ether moiety; and
(b) a melamine resin.

17. (currently amended) A method for preparing a multilayered article comprising steps of:
providing a composition comprising reactive ingredients of:

(a) a polymer comprising at least one polyester segment and
at least one polyether segment comprising units derived from oxetane, wherein the polyether segment comprises a pendent fluorinated group comprising:
(i) a fluorocarbon moiety, and
(ii) an ether moiety, wherein the fluorocarbon moiety is linked to the polyether segment via the ether moiety; and

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(b) a melamine resin; and
using the composition to form a layer on a substrate.

18. (original) The method according to claim 17, wherein the substrate comprises a cellulosic product, fiber, synthetic polymer, metal, or ceramic.

19. (original) The method according to claim 17, wherein the substrate includes a layer of plasticized vinyl chloride polymer.

20. (original) The method according to claim 17, performed to make a wallcovering.

21. (original) The method according to claim 20, performed to make a dry erase surface.

22. (original) The method of claim 17 where in the step of using the composition to form a layer on a substrate comprises heating the composition to at least about 150°F.